

YBE1-BQ79a



07-01-02

\$ GP 3739

PATENT APPLICATION

#82

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED

In re Application of:

Examiner: Peter J. Vrettakos

JUL 10 2002

Joseph Neev

Group Art Unit: 3739

TECHNOLOGY CENTER R3700

Serial No.: 09/632,199

TECHNOLOGY CENTER R3700

Filed: August 2, 2000

JUL 10 2002

For: METHOD AND APPARATUS FOR HIGH
PRECISION VARIABLE RATE
MATERIAL REMOVAL AND
MODIFICATION

Irvine, California 92614

RECEIVED

Watch Return
&

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

In compliance with the duty of disclosure as set forth in 37 C.F.R. § 1.56 and in
conformance with 37 C.F.R. §§ 1.97(c) - 1.98, applicant wishes to bring to the attention of the
United States Patent Examiner the following references:

U.S. PATENTS

5,312,396
5,411,502
5,613,965

Feld, et al.
Zair
Muller



RECEIVED

JUL 10 2002

OTHER DOCUMENTS

Raimund Hibst, and Ulrich Keller, "Experimental Studies of the Application of the Er:YAG Laser on Dental Hard Substances: I. Measurement of the Ablation Rate". Lasers in Surgery and Medicine 9:338-344 (1989).

Raimund Hibst, and Ulrich Keller, "Experimental Studies of the Application of the Er:YAG Laser on Dental Hard Substances: II. Light Microscopic and SEM Investigations". Lasers in Surgery and Medicine. 9:345-351 (1989)

J.T. Walsh, Jr., T.J. Flotte, R.R. Anderston and T.F. Deutsch, "Pulsed CO₂ Laser Tissue Ablation: Effect of Tissue Type and Pulse Duration on Thermal Damage". Lasers in Surgery and Medicine 8:108-118 (1988).

J.T. Walsh, Jr., T.J. Flotte, and T.F. Deutsch, "Er:YAG Laser Ablation of Tissue: Effect of Pulse Duration and Tissue Type on Thermal Damage". Lasers in Surgery and Medicine 9:314-326 (1989)

J.T. Walsh, Jr., and T.F. Deutsch, "Er:YAG Laser Ablation of Tissue: Measurement of Ablation Rates". Lasers in Surgery and Medicine 9:327-337 (1989)

J. Neev, K. Pham, J.P. Lee, J.M. White, "Dentin Ablation with Three Infrared Lasers". Beckman Laser Institute and Medical Clinic Irvine, supported by grants: Navy Grant #N00014-90-0-0029 DOE #DE-FG0391ER61227, Aug. 9, 1994. 15 pg

J. Neev, A. Stabholz, L.L. Liaw, M. Torabinejac, J.T. Fujishige, P.D. Ho and M.W. Berns, "Scanning Electron Microscopy and Thermal Characteristics of Dentin Ablation by a Short-Pulse XeCl Excimer Laser". Lasers in Surgery and Medicine 13:353-362 (1993).

J. Neev, D.V. Raney, W.E. Whalen, J.T. Fujishige, P.D. Ho, J.V. McGrann, and M.W. Berns, "Selectivity and Efficiency in the Ablation of Hard Dental Tissues with ArF Pulsed Excimer Laser". Beckman Laser Institute and Medical Clinic, (University of California, Irvine) 22 pages

J. Neev, D.V. Raney, W.E. Whalen, J.T. Fujishige, P.D. Ho, J.V. McGrann and M.W. Berns, "Dentin Ablation with Two Excimer Lasers: A Comparative Study of Physical Characteristics". Lasers in the Life Sciences, 5(1-2), 1992, pp. 129-153.

J. Neev, D.V. Raney, W.E. Whalen, J.T. Fujishige, P.D. Ho, J.V. McGrann and M.W. Berns, Reprinted from "Proceedings of LASER-TISSUE INTERACTION IN SPIE - The International Society for Optical Engineering, 21-23 January 1991, pp. 162-172.

J.T. Walsh, and D. Ashley Hill, "Erbium Laser Ablation of Bone: Effect of Water Content" SPIE Vol. 1427 Laser Tissue Interaction 11:(1991), pp. 27-33.

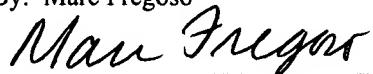
A Copy of these references are enclosed herewith and is listed on the attached PTO Form 1449.

The fee of \$180.00 for submitting this Information Disclosure Statement is attached.

I hereby certify that this correspondence is being deposited on June 27, 2002 with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 and is addressed to the Commissioner for Patents, Washington, D.C. 20231

Date: June 27, 2002

By: Marc Fregoso

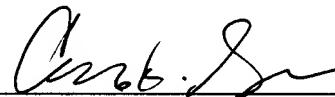


Signature

"Express Mail" Mailing Label Number:
EV0342864822US

Respectfully submitted,

PRICE AND GESS



Albin H. Gess
Registration No. 25,726
2100 S.E. Main St., Suite 250
Irvine, California 92714
Telephone: 949/261-8433